



//DBMS Assignment No.2

```
mysql> show databases;
```

Database
information_schema
aot
details
mysql
performance_schema
xyz

```
6 rows in set (0.00 sec)
```

```
mysql> use xyz;
```

```
Database changed
```

```
mysql> create table abcd(name varchar(20),id int, address varchar(20));
```

```
Query OK, 0 rows affected (0.04 sec)
```

```
mysql> insert into abcd values
```

```
-> ('AK',1,'qwert'),('RG',2,'yuiop'),('SP',3,'asdf'),('YK',4,'ghjkl'),
```

```
-> ('NS',5,'abcde'),('NN',6,'uvwxyz'),('SB',7,'mnopq'),('SI',8,'ijkl'),('BS',9,'efgh');
```

```
Query OK, 9 rows affected (0.01 sec)
```

```
Records: 9 Duplicates: 0 Warnings: 0
```

```
mysql> select* from abcd;
```

name	id	address
AK	1	qwert
RG	2	yuiop
SP	3	asdf
YK	4	ghjkl
NS	5	abcde
NN	6	uvwxyz
SB	7	mnopq
SI	8	ijkl
BS	9	efgh

```
9 rows in set (0.01 sec)
```

```
mysql> insert into abcd values('UNKNOWN',10,'asdfgh');
```

```
Query OK, 1 row affected (0.00 sec)
```

```
mysql> select* from abcd;
```

name	id	address
AK	1	qwert
RG	2	yuiop
SP	3	asdf
YK	4	ghjkl

NS	5	abcde
NN	6	uvwxyz
SB	7	mnopq
SI	8	ijkl
BS	9	efgh
UNKNOWN	10	asdfgh

+-----+

10 rows in set (0.00 sec)

```
mysql> alter table abcd add middle_name varchar(20);
```

Query OK, 10 rows affected (0.10 sec)

Records: 10 Duplicates: 0 Warnings: 0

```
mysql> select* from abcd;
```

name	id	address	middle_name
AK	1	qwert	NULL
RG	2	yuiop	NULL
SP	3	asdf	NULL
YK	4	ghjkl	NULL
NS	5	abcde	NULL
NN	6	uvwxyz	NULL
SB	7	mnopq	NULL
SI	8	ijkl	NULL
BS	9	efgh	NULL
UNKNOWN	10	asdfgh	NULL

+-----+

10 rows in set (0.00 sec)

```
mysql> alter table abcd modify id float;
```

Query OK, 10 rows affected (0.20 sec)

Records: 10 Duplicates: 0 Warnings: 0

```
mysql> update abcd set id=23.9 where name='AK';
```

Query OK, 1 row affected (0.00 sec)

Rows matched: 1 Changed: 1 Warnings: 0

```
mysql> select* from abcd;
```

name	id	address	middle_name
AK	23.9	qwert	NULL
RG	2	yuiop	NULL
SP	3	asdf	NULL
YK	4	ghjkl	NULL
NS	5	abcde	NULL
NN	6	uvwxyz	NULL
SB	7	mnopq	NULL
SI	8	ijkl	NULL
BS	9	efgh	NULL
UNKNOWN	10	asdfgh	NULL

+-----+

10 rows in set (0.00 sec)

```
mysql> rename table abcd to friends;  
Query OK, 0 rows affected (0.01 sec)
```

```
mysql> select* from friends;
```

name	id	address	middle_name
AK	23.9	qwert	NULL
RG	2	yuiop	NULL
SP	3	asdf	NULL
YK	4	ghjkl	NULL
NS	5	abcde	NULL
NN	6	uvwxyz	NULL
SB	7	mnopq	NULL
SI	8	ijkl	NULL
BS	9	efgh	NULL
UNKNOWN	10	asdfgh	NULL

```
10 rows in set (0.00 sec)
```

```
mysql> delete from friends where name='UNKNOWN';  
Query OK, 1 row affected (0.03 sec)
```

```
mysql> select* from friends;
```

name	id	address	middle_name
AK	23.9	qwert	NULL
RG	2	yuiop	NULL
SP	3	asdf	NULL
YK	4	ghjkl	NULL
NS	5	abcde	NULL
NN	6	uvwxyz	NULL
SB	7	mnopq	NULL
SI	8	ijkl	NULL
BS	9	efgh	NULL

```
9 rows in set (0.00 sec)
```

```
mysql> truncate table friends;  
Query OK, 0 rows affected (0.04 sec)
```

```
mysql> select* from friends;  
Empty set (0.00 sec)
```

```
mysql> drop table friends;  
Query OK, 0 rows affected (0.05 sec)
```

```
mysql> show tables;  
Empty set (0.00 sec)
```

```
mysql> drop database xyz;
Query OK, 0 rows affected (0.00 sec)
```

```
mysql> show databases;
+-----+
| Database |
+-----+
| information_schema |
| aot       |
| details  |
| mysql    |
| performance_schema |
+-----+
5 rows in set (0.00 sec)
```

```
mysql> use aot;
Database changed
mysql> show tables;
Empty set (0.00 sec)
```

```
mysql> drop database aot;
Query OK, 0 rows affected (0.00 sec)
```

```
mysql> create database aot;
Query OK, 1 row affected (0.00 sec)
```

```
mysql> show databases;
+-----+
| Database |
+-----+
| information_schema |
| aot       |
| details  |
| mysql    |
| performance_schema |
+-----+
5 rows in set (0.00 sec)
```

```
mysql> use aot;
Database changed
```

```
mysql> create table attack(name varchar(20), titan varchar(20),
-> id float, ability varchar(20), size decimal(2,1), weakness varchar(20));
Query OK, 0 rows affected (0.05 sec)
```

```
mysql> insert into attack values
-> ('Eren_Yeager','Founding_Titan',23,'Titan_Creation',5.5,'Mikasa'),
-> ('Zeke_Yeager','Beast_Titan',56,'Powerfull_Throws',9.8,'Levi'),
-> ('Falco_Grice','Jaw_Titan',14,'Immense_Bite',6.7,'Gabi');
Query OK, 3 rows affected (0.00 sec)
Records: 3 Duplicates: 0 Warnings: 0
```

```
mysql> select* from attack;
```

```

+-----+-----+-----+-----+-----+-----+
| name      | titan      | id  | ability      | size | weakness |
+-----+-----+-----+-----+-----+-----+
| Eren_Yeager | Founding_Titan | 23 | Titan_Creation | 5.5 | Mikasa |
| Zeke_Yeager | Beast_Titan   | 56 | Powerfull_Throws | 9.8 | Levi |
| Falco_Grice | Jaw_Titan     | 14 | Immense_Bite  | 6.7 | Gabi |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)

```

```

mysql> insert into attack values
-> ('Reiner_Braun','Armored_Titan',67,'Armored_Exterior',4.9,'Historia');
Query OK, 1 row affected (0.05 sec)

```

```

mysql> select* from attack;
+-----+-----+-----+-----+-----+-----+
| name      | titan      | id  | ability      | size | weakness |
+-----+-----+-----+-----+-----+-----+
| Eren_Yeager | Founding_Titan | 23 | Titan_Creation | 5.5 | Mikasa |
| Zeke_Yeager | Beast_Titan   | 56 | Powerfull_Throws | 9.8 | Levi |
| Falco_Grice | Jaw_Titan     | 14 | Immense_Bite  | 6.7 | Gabi |
| Reiner_Braun | Armored_Titan | 67 | Armored_Exterior | 4.9 | Historia |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)

```

```

mysql> rename table attack to attack_on_titan;
Query OK, 0 rows affected (0.04 sec)

```

```

mysql> select* from attack_on_titan;
+-----+-----+-----+-----+-----+-----+
| name      | titan      | id  | ability      | size | weakness |
+-----+-----+-----+-----+-----+-----+
| Eren_Yeager | Founding_Titan | 23 | Titan_Creation | 5.5 | Mikasa |
| Zeke_Yeager | Beast_Titan   | 56 | Powerfull_Throws | 9.8 | Levi |
| Falco_Grice | Jaw_Titan     | 14 | Immense_Bite  | 6.7 | Gabi |
| Reiner_Braun | Armored_Titan | 67 | Armored_Exterior | 4.9 | Historia |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)

```

```

mysql> alter table attack_on_titan add race varchar(20);
Query OK, 4 rows affected (0.65 sec)
Records: 4 Duplicates: 0 Warnings: 0

```

```

mysql> select* from attack_on_titan;
+-----+-----+-----+-----+-----+-----+-----+
| name      | titan      | id  | ability      | size | weakness | race |
+-----+-----+-----+-----+-----+-----+-----+
| Eren_Yeager | Founding_Titan | 23 | Titan_Creation | 5.5 | Mikasa | NULL |
| Zeke_Yeager | Beast_Titan   | 56 | Powerfull_Throws | 9.8 | Levi | NULL |
| Falco_Grice | Jaw_Titan     | 14 | Immense_Bite  | 6.7 | Gabi | NULL |
| Reiner_Braun | Armored_Titan | 67 | Armored_Exterior | 4.9 | Historia | NULL |
+-----+-----+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)

```

```
mysql> alter table attack_on_titan drop race;
Query OK, 4 rows affected (0.44 sec)
Records: 4 Duplicates: 0 Warnings: 0
```

```
mysql> select* from attack_on_titan;
```

name	titan	id	ability	size	weakness
Eren_Yeager	Founding_Titan	23	Titan_Creation	5.5	Mikasa
Zeke_Yeager	Beast_Titan	56	Powerfull_Throws	9.8	Levi
Falco_Grice	Jaw_Titan	14	Immense_Bite	6.7	Gabi
Reiner_Braun	Armored_Titan	67	Armored_Exterior	4.9	Historia

4 rows in set (0.00 sec)

```
mysql> alter table attack_on_titan change id char_id int;
Query OK, 4 rows affected (0.08 sec)
Records: 4 Duplicates: 0 Warnings: 0
```

```
mysql> select* from attack_on_titan;
```

name	titan	char_id	ability	size	weakness
Eren_Yeager	Founding_Titan	23	Titan_Creation	5.5	Mikasa
Zeke_Yeager	Beast_Titan	56	Powerfull_Throws	9.8	Levi
Falco_Grice	Jaw_Titan	14	Immense_Bite	6.7	Gabi
Reiner_Braun	Armored_Titan	67	Armored_Exterior	4.9	Historia

4 rows in set (0.00 sec)

```
mysql> update attack_on_titan set ability='flight' where char_id=14;
Query OK, 1 row affected (0.00 sec)
Rows matched: 1 Changed: 1 Warnings: 0
```

```
mysql> select* from attack_on_titan;
```

name	titan	char_id	ability	size	weakness
Eren_Yeager	Founding_Titan	23	Titan_Creation	5.5	Mikasa
Zeke_Yeager	Beast_Titan	56	Powerfull_Throws	9.8	Levi
Falco_Grice	Jaw_Titan	14	flight	6.7	Gabi
Reiner_Braun	Armored_Titan	67	Armored_Exterior	4.9	Historia

4 rows in set (0.00 sec)

```
mysql> select name, ability from attack_on_titan;
```

name	ability
Eren_Yeager	Titan_Creation
Zeke_Yeager	Powerfull_Throws
Falco_Grice	flight
Reiner_Braun	Armored_Exterior

4 rows in set (0.00 sec)

```
mysql> select* from attack_on_titan;
```

name	titan	char_id	ability	size	weakness
Eren_Yeager	Founding_Titan	23	Titan_Creation	5.5	Mikasa
Zeke_Yeager	Beast_Titan	56	Powerfull_Throws	9.8	Levi
Falco_Grice	Jaw_Titan	14	flight	6.7	Gabi
Reiner_Braun	Armored_Titan	67	Armored_Exterior	4.9	Historia

```
4 rows in set (0.00 sec)
```

```
mysql> select char_id,weakness from attack_on_titan ORDER BY char_id DESC;
```

char_id	weakness
67	Historia
56	Levi
23	Mikasa
14	Gabi

```
4 rows in set (0.00 sec)
```

```
mysql> select char_id,weakness from attack_on_titan ORDER BY char_id ASC;
```

char_id	weakness
14	Gabi
23	Mikasa
56	Levi
67	Historia

```
4 rows in set (0.00 sec)
```

```
mysql> select* from attack_on_titan where char_id > 25;
```

name	titan	char_id	ability	size	weakness
Zeke_Yeager	Beast_Titan	56	Powerfull_Throws	9.8	Levi
Reiner_Braun	Armored_Titan	67	Armored_Exterior	4.9	Historia

```
2 rows in set (0.00 sec)
```

```
mysql> select* from attack_on_titan where char_id < 25;
```

name	titan	char_id	ability	size	weakness
Eren_Yeager	Founding_Titan	23	Titan_Creation	5.5	Mikasa
Falco_Grice	Jaw_Titan	14	flight	6.7	Gabi

```
2 rows in set (0.00 sec)
```

```
mysql> select* from attack_on_titan where char_id < 25 AND weakness='gabi';
```

name	titan	char_id	ability	size	weakness
Falco_Grice	Jaw_Titan	14	flight	6.7	Gabi

```
1 row in set (0.00 sec)
```



```
mysql> select* from attack_on_titan where char_id < 25 OR weakness='historia';
```

name	titan	char_id	ability	size	weakness
Eren_Yeager	Founding_Titan	23	Titan_Creation	5.5	Mikasa
Falco_Grice	Jaw_Titan	14	flight	6.7	Gabi
Reiner_Braun	Armored_Titan	67	Armored_Exterior	4.9	Historia

```
3 rows in set (0.00 sec)
```

```
mysql> select* from attack_on_titan where NOT char_id > 50;
```

name	titan	char_id	ability	size	weakness
Eren_Yeager	Founding_Titan	23	Titan_Creation	5.5	Mikasa
Falco_Grice	Jaw_Titan	14	flight	6.7	Gabi

```
2 rows in set (0.00 sec)
```

```
mysql> select* from attack_on_titan;
```

name	titan	char_id	ability	size	weakness
Eren_Yeager	Founding_Titan	23	Titan_Creation	5.5	Mikasa
Zeke_Yeager	Beast_Titan	56	Powerfull_Throws	9.8	Levi
Falco_Grice	Jaw_Titan	14	flight	6.7	Gabi
Reiner_Braun	Armored_Titan	67	Armored_Exterior	4.9	Historia

```
4 rows in set (0.00 sec)
```

```
mysql> select* from attack_on_titan where size BETWEEN 5 AND 10;
```

name	titan	char_id	ability	size	weakness
Eren_Yeager	Founding_Titan	23	Titan_Creation	5.5	Mikasa
Zeke_Yeager	Beast_Titan	56	Powerfull_Throws	9.8	Levi
Falco_Grice	Jaw_Titan	14	flight	6.7	Gabi

```
3 rows in set (0.00 sec)
```

```
mysql> select* from attack_on_titan where size NOT BETWEEN 5 AND 10;
```

name	titan	char_id	ability	size	weakness
Reiner_Braun	Armored_Titan	67	Armored_Exterior	4.9	Historia

```
1 row in set (0.00 sec)
```

```
mysql> select* from attack_on_titan where name LIKE '%g__';
```

name	titan	char_id	ability	size	weakness
Eren_Yeager	Founding_Titan	23	Titan_Creation	5.5	Mikasa
Zeke_Yeager	Beast_Titan	56	Powerfull_Throws	9.8	Levi

```
2 rows in set (0.00 sec)
```

```
mysql> select* from attack_on_titan where titan LIKE '%e%';
```

name	titan	char_id	ability	size	weakness
Zeke_Yeager	Beast_Titan	56	Powerfull_Throws	9.8	Levi
Reiner_Braun	Armored_Titan	67	Armored_Exterior	4.9	Historia

2 rows in set (0.00 sec)

```
mysql> select* from attack_on_titan where titan NOT LIKE '%m%';
```

name	titan	char_id	ability	size	weakness
Eren_Yeager	Founding_Titan	23	Titan_Creation	5.5	Mikasa
Zeke_Yeager	Beast_Titan	56	Powerfull_Throws	9.8	Levi
Falco_Grice	Jaw_Titan	14	flight	6.7	Gabi

3 rows in set (0.00 sec)

```
mysql> create table student(id int, name varchar(20), semester int, gender varchar(20));  
Query OK, 0 rows affected (0.04 sec)
```

```
mysql> insert into student values
```

```
-> (1,'Atharva',2,'male'),(3,'Shubham',1,'male'),(4,'Yash',3,'male'),  
-> (2,'Rhushi',2,'male');
```

```
Query OK, 4 rows affected (0.01 sec)  
Records: 4 Duplicates: 0 Warnings: 0
```

```
mysql> select* from student;
```

id	name	semester	gender
1	Atharva	2	male
3	Shubham	1	male
4	Yash	3	male
2	Rhushi	2	male

4 rows in set (0.00 sec)

```
mysql> create table stud(id int, name varchar(20), semester int, gender varchar(20));  
Query OK, 0 rows affected (0.03 sec)
```

```
mysql> insert into stud values
```

```
-> (3,'Shubham',1,'male'),(4,'Yash',3,'male'),(5,'Nikhil',4,'male');
```

```
Query OK, 3 rows affected (0.00 sec)  
Records: 3 Duplicates: 0 Warnings: 0
```

```
mysql> select* from stud;
```

id	name	semester	gender
3	Shubham	1	male
4	Yash	3	male
5	Nikhil	4	male

3 rows in set (0.00 sec)

```
mysql> select* from student UNION select* from stud;
```

id	name	semester	gender
1	Atharva	2	male
3	Shubham	1	male
4	Yash	3	male
2	Rhushi	2	male
5	Nikhil	4	male

```
5 rows in set (0.00 sec)
```

```
mysql> select* from student UNION ALL select* from stud;
```

id	name	semester	gender
1	Atharva	2	male
3	Shubham	1	male
4	Yash	3	male
2	Rhushi	2	male
3	Shubham	1	male
4	Yash	3	male
5	Nikhil	4	male

```
7 rows in set (0.00 sec)
```

```
mysql> select COUNT(id) as Count from student;
```

Count
4

```
1 row in set (0.00 sec)
```

```
mysql> select COUNT(Distinct semester) as Count from student;
```

Count
3

```
1 row in set (0.00 sec)
```

```
mysql> select SUM(id) as Sum from student;
```

Sum
10

```
1 row in set (0.00 sec)
```

```
mysql> select AVG(id) as Avg from student;
```

Avg
2.5000

```
1 row in set (0.00 sec)
```

```
mysql> select MIN(id) as Min from student;
```

```
+-----+  
| Min |  
+-----+  
| 1 |  
+-----+
```

```
1 row in set (0.00 sec)
```

```
mysql> select MAX(id) as Max from student;
```

```
+-----+  
| Max |  
+-----+  
| 4 |  
+-----+
```

```
1 row in set (0.00 sec)
```

```
mysql> show tables;
```

```
+-----+  
| Tables_in_aot |  
+-----+  
| attack_on_titan |  
| marks |  
| n_rollcall |  
| o_rollcall |  
| result |  
| stud |  
| student |  
+-----+
```

```
7 rows in set (0.07 sec)
```

```
mysql> select* from student;
```

```
+-----+-----+-----+-----+  
| id | name | semester | gender |  
+-----+-----+-----+-----+  
| 1 | Atharva | 2 | male |  
| 3 | Shubham | 1 | male |  
| 4 | Yash | 3 | male |  
| 2 | Rhushi | 2 | male |  
+-----+-----+-----+-----+
```

```
4 rows in set (0.00 sec)
```

```
mysql> create index stu on student(name);
```

```
Query OK, 0 rows affected (0.04 sec)
```

```
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> show index from student;
```

```
+-----+-----+-----+-----+-----+-----+-----+  
| Table | Non_unique | Key_name | Seq_in_index | Column_name | Collation | Cardinality | Sub_part |  
| Packed | Null | Index_type | Comment | Index_comment |  
+-----+-----+-----+-----+-----+-----+-----+  
| student | 1 | stu | 1 | name | A | 4 |  
NULL | NULL | YES | BTREE | | | |  
+-----+-----+-----+-----+-----+-----+-----+
```

```
1 row in set (0.00 sec)
```

```
mysql> select* from attack_on_titan;
```

name	titan	char_id	ability	size	weakness
Eren_Yeager	Founding_Titan	23	Titan_Creation	5.5	Mikasa
Zeke_Yeager	Beast_Titan	56	Powerfull_Throws	9.8	Levi
Falco_Grice	Jaw_Titan	14	flight	6.7	Gabi
Reiner_Braun	Armored_Titan	67	Armored_Exterior	4.9	Historia

```
4 rows in set (0.00 sec)
```

```
mysql> create view attack as select char_id,name,ability from attack_on_titan;
```

```
Query OK, 0 rows affected (0.28 sec)
```

```
mysql> select* from attack;
```

char_id	name	ability
23	Eren_Yeager	Titan_Creation
56	Zeke_Yeager	Powerfull_Throws
14	Falco_Grice	flight
67	Reiner_Braun	Armored_Exterior

```
4 rows in set (0.04 sec)
```

```
mysql> drop view attack;
```

```
Query OK, 0 rows affected (0.00 sec)
```

//DBMS Assignment No.3

mysql> show databases;

Database
information_schema
aot
details
mysql
performance_schema
trash

6 rows in set (0.00 sec)

mysql> use aot;

Database changed

mysql> show tables;

Tables_in_aot
attack_on_titan
marks
n_rollcall
o_rollcall
result
stud
student

7 rows in set (0.00 sec)

mysql> select* from attack_on_titan;

name	titan	char_id	ability	size	weakness
Eren_Yeager	Founding_Titan	23	Titan_Creation	5.5	Mikasa
Zeke_Yeager	Beast_Titan	56	Powerfull_Throws	9.8	Levi
Falco_Grice	Jaw_Titan	14	flight	6.7	Gabi
Reiner_Braun	Armored_Titan	67	Armored_Exterior	4.9	Historia

4 rows in set (0.00 sec)

mysql> create view attack as select char_id, name, weakness from attack_on_titan;
Query OK, 0 rows affected (0.01 sec)

mysql> select* from attack;

char_id	name	weakness
23	Eren_Yeager	Mikasa
56	Zeke_Yeager	Levi
14	Falco_Grice	Gabi
67	Reiner_Braun	Historia

4 rows in set (0.00 sec)

mysql> rename table attack to attack2;

Query OK, 0 rows affected (0.01 sec)

mysql> update attack2 set char_id=34 where weakness='mikasa';

Query OK, 1 row affected (0.01 sec)

Rows matched: 1 Changed: 1 Warnings: 0

```
mysql> select* from attack_on_titan;
```

name	titan	char_id	ability	size	weakness
Eren_Yeager	Founding_Titan	34	Titan_Creation	5.5	Mikasa
Zeke_Yeager	Beast_Titan	56	Powerfull_Throws	9.8	Levi
Falco_Grice	Jaw_Titan	14	flight	6.7	Gabi
Reiner_Braun	Armored_Titan	67	Armored_Exterior	4.9	Historia

```
4 rows in set (0.00 sec)
```

```
mysql> select* from attack2;
```

char_id	name	weakness
34	Eren_Yeager	Mikasa
56	Zeke_Yeager	Levi
14	Falco_Grice	Gabi
67	Reiner_Braun	Historia

```
4 rows in set (0.00 sec)
```

```
mysql> select char_id, weakness from attack2 ORDER BY char_id DESC;
```

char_id	weakness
67	Historia
56	Levi
34	Mikasa
14	Gabi

```
4 rows in set (0.00 sec)
```

```
mysql> select char_id, name from attack2 ORDER BY char_id ASC;
```

char_id	name
14	Falco_Grice
34	Eren_Yeager
56	Zeke_Yeager
67	Reiner_Braun

```
4 rows in set (0.01 sec)
```

```
mysql> select DISTINCT name from attack2;
```

name
Eren_Yeager
Zeke_Yeager
Falco_Grice
Reiner_Braun

```
4 rows in set (0.00 sec)
```

```
mysql> select* from attack2 where char_id<50 OR weakness='Historia';
```

char_id	name	weakness
34	Eren_Yeager	Mikasa
14	Falco_Grice	Gabi
67	Reiner_Braun	Historia

```
3 rows in set (0.00 sec)
```

```
mysql> select* from attack2 where char_id=67 AND weakness='Historia';
```

char_id	name	weakness
67	Reiner_Braun	Historia

```
1 row in set (0.00 sec)
```

```
mysql> select* from attack2 where char_id BETWEEN 10 AND 40;
```

char_id	name	weakness
34	Eren_Yeager	Mikasa
14	Falco_Grice	Gabi

```
2 rows in set (0.00 sec)
```

```
mysql> select* from attack2 where weakness like'%i';
```

char_id	name	weakness
56	Zeke_Yeager	Levi
14	Falco_Grice	Gabi

```
2 rows in set (0.00 sec)
```

```
mysql> select MAX(char_id) as MAX_IDs from attack2;
```

MAX_IDs
67

```
1 row in set (0.00 sec)
```

```
mysql> create table customers(customer_id int, First_name varchar(20));
```

```
Query OK, 0 rows affected (0.03 sec)
```

```
mysql> insert into customers values
```

```
-> (1,'Atharva'),(2,'Shubham'),(3,'Yash'),(4,'Nikhil'),(5,'Nikita');
```

```
Query OK, 5 rows affected (0.00 sec)
```

```
Records: 5 Duplicates: 0 Warnings: 0
```

```
mysql> create table orders(order_id int, amount int, customer_id int);
```

```
Query OK, 0 rows affected (0.48 sec)
```

```
mysql> insert into orders values
```

```
-> (1,200,10),(2,500,3),(3,300,6),(4,800,5),(5,150,8);
```

```
Query OK, 5 rows affected (0.03 sec)
```

```
Records: 5 Duplicates: 0 Warnings: 0
```



```
mysql> select* from orders;
```

order_id	amount	customer_id
1	200	10
2	500	3
3	300	6
4	800	5
5	150	8

```
5 rows in set (0.00 sec)
```

```
mysql> select* from customers;
```

customer_id	first_name
1	Atharva
2	Shubham
3	Yash
4	Nikhil
5	Nikita

```
5 rows in set (0.00 sec)
```

```
mysql> select customers.customer_id, customers.first_name, orders.amount
-> from customers
-> INNER JOIN orders
-> ON customers.customer_id = orders.customer_id;
```

customer_id	first_name	amount
3	Yash	500
5	Nikita	800

```
2 rows in set (0.00 sec)
```

```
mysql> select customers.customer_id, customers.first_name, orders.amount
-> from customers
-> LEFT JOIN orders
-> ON customers.customer_id = orders.customer_id;
```

customer_id	first_name	amount
1	Atharva	NULL
2	Shubham	NULL
3	Yash	500
4	Nikhil	NULL
5	Nikita	800

```
5 rows in set (0.01 sec)
```

```
mysql> select customers.customer_id, customers.first_name, orders.amount
-> from customers
-> RIGHT JOIN orders
-> ON customers.customer_id = orders.customer_id;
```

customer_id	first_name	amount
NULL	NULL	200
3	Yash	500
NULL	NULL	300
5	Nikita	800
NULL	NULL	150

5 rows in set (0.00 sec)

```
mysql> select customers.customer_id, customers.first_name, orders.amount
-> from customers
-> FULL OUTER JOIN orders
-> ON customers.customer_id = orders.customer_id;
```

```
mysql> select customer_id, first_name from customers
-> where customer_id IN (select customer_id from orders);
```

customer_id	first_name
3	Yash
5	Nikita

2 rows in set (0.01 sec)

```
mysql> select first_name from customers
-> where customer_id= (select MAX(customer_id) from customers);
```

first_name
Nikita

1 row in set (0.00 sec)

```
mysql> select DISTINCT customers.customer_id, customers.first_name from customers
-> INNER JOIN orders ON customers.customer_id = orders.customer_id
-> ORDER BY customers.customer_id;
```

customer_id	first_name
3	Yash
5	Nikita

2 rows in set (0.00 sec)

//DBMS Assignment No.4

```
mysql> show databases;
```

Database
information_schema
anime
dbms
mayur
mysql
performance_schema
students
test
xyz

```
9 rows in set (0.00 sec)
```

```
mysql> create database aot;
```

```
Query OK, 1 row affected (0.00 sec)
```

```
mysql> use aot;
```

```
Database changed
```

```
mysql> create table borrower(roll_no int, name varchar(20),DOI date,
```

```
-> book_name varchar(20), status varchar(20));
```

```
Query OK, 0 rows affected (0.01 sec)
```

```
mysql> insert into borrower values
```

```
-> (12,'sanket','2018-07-01','xyz','issued'),
```

```
-> (14,'atharva','2018-06-01','oop','issued'),
```

```
-> (16,'yash','2018-05-01','coa','returned'),
```

```
-> (18,'shubham','2018-06-15','toc','returned'),
```

```
-> (20,'shivraj','2018-05-15','mp','issued');
```

```
Query OK, 5 rows affected (0.02 sec)
```

```
Records: 5 Duplicates: 0 Warnings: 0
```

```
mysql> select* from borrower;
```

roll_no	name	DOI	book_name	status
12	sanket	2018-07-01	xyz	issued
14	atharva	2018-06-01	oop	issued
16	yash	2018-05-01	coa	returned
18	shubham	2018-06-15	toc	returned
20	shivraj	2018-05-15	mp	issued

```
5 rows in set (0.00 sec)
```

```
mysql> create table fine(roll_no int, fine_date date, amount int);
```

```
Query OK, 0 rows affected (0.02 sec)
```

```
mysql> delimiter //
```

```
mysql> create procedure B(roll_new int,book_name varchar(20))
```

```
-> begin
```

```
-> declare X integer;
```

```

-> declare continue handler for not found
-> begin
-> select 'NOT FOUND';
-> end;
-> select datediff(curdate(),DOI) into X from Borrower where roll_no=roll_new;
-> if (X>15&&X<30)
-> then
-> insert into Fine values(roll_new,curdate(),(X*5));
-> end if;
-> if (X>30)
-> then
-> insert into Fine values(roll_new,curdate(),(X*50));
-> end if;
-> update Borrower set status='returned' where roll_no=roll_new;
-> end;
-> //
Query OK, 0 rows affected (0.00 sec)

```

```

mysql> call B(12,'xyz'); //
Query OK, 1 row affected (0.00 sec)

```

```

mysql> select * from Fine; //
+-----+-----+-----+
| roll_no | fine_date | amount |
+-----+-----+-----+
|      12 | 2023-09-20 | 95350 |
+-----+-----+-----+
1 row in set (0.00 sec)

```

```

mysql> select * from Borrower; //
+-----+-----+-----+-----+-----+
| roll_no | name   | DOI      | book_name | status |
+-----+-----+-----+-----+-----+
|      12 | sanket | 2018-07-01 | xyz       | returned |
|      14 | atharva | 2018-06-01 | oop       | issued |
|      16 | yash   | 2018-05-01 | coa       | returned |
|      18 | shubham | 2018-06-15 | toc       | returned |
|      20 | shivraj | 2018-05-15 | mp        | issued |
+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)

```

```

mysql> call B(20,'shivraj'); //
Query OK, 1 row affected (0.00 sec)

```

```
mysql> select * from Fine; //
```

roll_no	fine_date	amount
12	2023-09-20	95350
20	2023-09-20	97700

2 rows in set (0.00 sec)

```
mysql> select * from Borrower; //
```

roll_no	name	DOI	book_name	status
12	sanket	2018-07-01	xyz	returned
14	atharva	2018-06-01	oop	issued
16	yash	2018-05-01	coa	returned
18	shubham	2018-06-15	toc	returned
20	shivraj	2018-05-15	mp	returned

5 rows in set (0.00 sec)

//DBMS Assignment No.5

```
mysql> show databases;
```

Database
information_schema
aot
details
mysql
performance_schema
trash

6 rows in set (0.00 sec)

```
mysql> use aot;
```

Database changed

```
mysql> show procedure status;
```

Db	Name	Type	Definer	Modified	Created
Security_type	Comment	character_set_client	collation_connection	Database Collation	
aot	proc_result1	PROCEDURE	root@localhost	2023-09-19 15:28:13	2023-09-19 15:28:13
DEFINER		latin1	latin1_swedish_ci	latin1_swedish_ci	

1 row in set (0.02 sec)

```
mysql> drop procedure IF EXISTS proc_result1;
```

Query OK, 0 rows affected, 1 warning (0.00 sec)

```
mysql> show procedure status;
```

Empty set (0.01 sec)

```
mysql> show function status where db='aot';
```

Db	Name	Type	Definer	Modified	Created
Security_type	Comment	character_set_client	collation_connection	Database Collation	
aot	final_result4	FUNCTION	root@localhost	2023-09-19 15:28:31	2023-09-19 15:28:31
DEFINER		latin1	latin1_swedish_ci	latin1_swedish_ci	
aot	final_result5	FUNCTION	root@localhost	2023-09-19 15:31:59	2023-09-19 15:31:59
DEFINER		latin1	latin1_swedish_ci	latin1_swedish_ci	

2 rows in set (0.01 sec)

```
mysql> drop function IF EXISTS final_result4, final_result5;
```

Query OK, 0 rows affected (0.00 sec)

```
mysql> show function status where db='aot';
```

Empty set (0.01 sec)

```
mysql>mysql> create table marks(roll_no int, name varchar(20), total_marks varchar(20));
Query OK, 0 rows affected (0.02 sec)
```

```
mysql> create table result(roll_no int, name varchar(20), class varchar(20));
Query OK, 0 rows affected (0.03 sec)
```

```
mysql> insert into marks values
-> ('1','abc','980'),('2','lmn','950'),('3','xyz','890'),('4','efg','900'),
-> ('5','pqr','560'),('6','khs','398'),('7','ekd','745'),('8','may','320');
Query OK, 8 rows affected (0.00 sec)
Records: 8 Duplicates: 0 Warnings: 0
```

```
mysql> delimiter //
mysql> create procedure proc_result(in marks int, out class char(20))
-> begin
-> if(marks <1000 && marks>800)
-> then
-> set class = 'Distinction';
-> end if;
-> if(marks < 799 && marks > 650)
-> then
-> set class = 'First Class';
-> end if;
-> if(marks < 649 && marks > 500)
-> then
-> set class = 'Higher Second Class';
-> end if;
-> if (marks < 499 && marks > 350)
-> then
-> set class = 'Pass';
-> end if;
-> if(marks<350)
-> then
-> set class='Fail';
-> end if;
-> end;
-> //
Query OK, 0 rows affected (0.00 sec)
```

```
mysql> create function final_result(R1 int)
-> returns int
-> begin
-> declare fmarks integer;
-> declare grade varchar(20);
-> declare stud_name varchar(20);
-> select marks.total_marks,marks.name into fmarks, stud_name from marks where
marks.roll_no=R1;
-> call proc_result(fmarks,@grade);
-> insert into result values(R1,stud_name,@grade);
-> return R1;
-> end;
-> //
Query OK, 0 rows affected (0.00 sec)
```

```
mysql> select final_result(1);
```

```
-> select final_result(2);
-> select final_result(3);
-> select final_result(4);
-> select final_result(5);
-> select final_result(6);
-> select final_result(7);
-> select final_result(8);
-> //
```

```
+-----+
| final_result(1) |
+-----+
|                1 |
+-----+
1 row in set (0.00 sec)
```

```
+-----+
| final_result(2) |
+-----+
|                2 |
+-----+
1 row in set (0.01 sec)
```

```
+-----+
| final_result(3) |
+-----+
|                3 |
+-----+
1 row in set (0.02 sec)
```

```
+-----+
| final_result(4) |
+-----+
|                4 |
+-----+
1 row in set (0.04 sec)
```

```
+-----+
| final_result(5) |
+-----+
|                5 |
+-----+
1 row in set (0.04 sec)
```

```
+-----+
| final_result(6) |
+-----+
|                6 |
+-----+
1 row in set (0.05 sec)
```

```
+-----+
| final_result(7) |
+-----+
|                7 |
+-----+
1 row in set (0.06 sec)
```

```
+-----+
| final_result(8) |
+-----+
|                8 |
+-----+
1 row in set (0.07 sec)
```



```
mysql> select* from result;  
-> //
```

roll_no	name	class
1	abc	Distinction
2	lmn	Distinction
3	xyz	Distinction
4	efg	Distinction
5	pqr	Higher Second Class
6	khs	Pass
7	ekd	First Class
8	may	Fail

8 rows in set (0.00 sec)

//DBMS Assignment No.6

```
mysql> show databases;
```

```
+-----+
| Database |
+-----+
| information_schema |
| aot |
| details |
| mysql |
| performance_schema |
| trash |
+-----+
```

```
6 rows in set (0.00 sec)
```

```
mysql> use aot;
```

```
Database changed
```

```
mysql> create table o_rollcall(roll_no int,name varchar(22),address varchar(25));
```

```
Query OK, 0 rows affected (0.12 sec)
```

```
mysql> create table n_rollcall(roll_no int,name varchar(22),address varchar(25));
```

```
Query OK, 0 rows affected (0.02 sec)
```

```
mysql> insert into o_rollcall values
```

```
-> ('1','Atharva','Buldhana'),('2','Shubham','Kolhapur'),('3','Yash','Latur'),
-> ('4','Nikita','Sawardari'),('5','Shivraj','Satara');
```

```
Query OK, 5 rows affected (0.00 sec)
```

```
Records: 5 Duplicates: 0 Warnings: 0
```

```
mysql> delimiter //
```

```
mysql> create procedure p3(in r1 int)
```

```
-> begin
-> declare r2 int;
-> declare exit_loop boolean;
-> declare c1 cursor for select roll_no from o_rollcall where roll_no>r1;
-> declare continue handler for not found set exit_loop=true;
-> open c1;
-> e_loop:loop
-> fetch c1 into r2;
-> if not exists(select* from n_rollcall where roll_no=r2)
-> then
-> insert into n_rollcall select* from o_rollcall where roll_no=r2;
-> end if;
-> if exit_loop
-> then
-> close c1;
-> leave e_loop;
-> end if;
-> end loop e_loop;
-> end
-> //
```

```
Query OK, 0 rows affected (0.00 sec)
```

```
mysql> call p3(3);
```

```
-> //
```

```
Query OK, 0 rows affected, 1 warning (0.00 sec)
```

```
mysql> select* from n_rollcall;  
-> //
```

roll_no	name	address
1	Atharva	Buldhana
2	Shubham	Kolhapur
3	Yash	Latur
4	Nikita	Sawardari
5	Shivraj	Satara

5 rows in set (0.00 sec)

```
mysql> call p3(0);
```

```
-> //
```

Query OK, 0 rows affected, 1 warning (0.00 sec)

```
mysql> select* from n_rollcall;  
-> //
```

roll_no	name	address
1	Atharva	Buldhana
2	Shubham	Kolhapur
3	Yash	Latur
4	Nikita	Sawardari
5	Shivraj	Satara

5 rows in set (0.00 sec)

```
mysql> insert into o_rollcall values('6','Rhushi','Pune'),('7','Nikhil','Rajgurunagar');
```

```
-> //
```

Query OK, 1 row affected (0.01 sec)

```
mysql> call p3(4);
```

```
-> //
```

Query OK, 0 rows affected, 1 warning (0.00 sec)

```
mysql> select* from n_rollcall;  
-> //
```

roll_no	name	address
1	Atharva	Buldhana
2	Shubham	Kolhapur
3	Yash	Latur
4	Nikita	Sawardari
5	Shivraj	Satara
6	Rhushi	Pune
7	Nikhil	Rajgurunagar

6 rows in set (0.00 sec)

//DBMS Assignment No.7

```
mysql> show databases;
```

Database
information_schema
aot
details
mysql
performance_schema
trash

6 rows in set (0.01 sec)

```
mysql> use aot;
```

Database changed

```
mysql> show tables;
```

Tables_in_aot
attack2
attack_on_titan
customers
marks
n_rollcall
o_rollcall
orders
result
stud
student

10 rows in set (0.75 sec)

```
mysql> create table notebook(notebook varchar(20),price int,quantity int);
```

Query OK, 0 rows affected (0.10 sec)

```
mysql> desc notebook;
```

Field	Type	Null	Key	Default	Extra
notebook	varchar(20)	YES		NULL	
price	int(11)	YES		NULL	
quantity	int(11)	YES		NULL	

3 rows in set (0.10 sec)

```
mysql> create trigger notebook_trigger
```

```
-> before insert on notebook
```

```
-> for each row
```

```
-> set new.price = new.price + 7;
```

Query OK, 0 rows affected (0.05 sec)

```
mysql> insert into notebook values
```

```
-> ('Classmate',65,300),('Sundaram',62,200);
```

Query OK, 2 rows affected (0.01 sec)

Records: 2 Duplicates: 0 Warnings: 0

```
mysql> select* from notebook;
```

notebook	price	quantity
Classmate	72	300
Sundaram	69	200

```
2 rows in set (0.00 sec)
```

```
mysql> update notebook set quantity = 250 where price=72;
```

```
Query OK, 1 row affected (0.26 sec)
```

```
Rows matched: 1 Changed: 1 Warnings: 0
```

```
mysql> select* from notebook;
```

notebook	price	quantity
Classmate	72	250
Sundaram	69	200

```
2 rows in set (0.00 sec)
```

```
mysql> delete from notebook where notebook ='Sundaram';
```

```
Query OK, 1 row affected (0.00 sec)
```

```
mysql> select* from notebook;
```

notebook	price	quantity
Classmate	72	250

```
1 row in set (0.00 sec)
```